



**REQUEST FOR QUOTE (RFQ)
INFORMAL COMPETITIVE SOLICITATION
FORESTRY HEAD MULCHER WITH ROTARY DRUM FOR SKID STEER REBID
22CRDWBDPAUL-002G**

Introduction: In accordance with the informal competition procedures provided for in 11 Iowa Administrative Code rules 117.9(1), the Department of Natural Resources (DNR) is seeking to purchase **Forestry Head Mulcher with Rotary Drum** meeting the specifications in this RFQ. Vendors interested in providing these products should submit quotes to the **DNR Issuing Officer** at the following address:

Kim Bohlen, DNR Purchasing Agent
Wallace Building 4th Floor
502 E 9th Street
Des Moines, Iowa 50319
515-344-0055
kim.bohlen@dnr.iowa.gov

Quotes are due January 6, 2022 at 12:00 PM CST. Email quotes required. Late quotes are not eligible for consideration.

Description of Good:

The DNR is seeking to purchase a FECON BH74SS Wood Shredder with FGT Rotor attachment for a skid steer, or State of Iowa approved equivalent. The FECON BH74SS Wood Shredder with FGT Rotor is intended to illustrate the general characteristics of the Forestry Head Mulcher with Rotary Drum that is needed and not meant to limit competition. All equivalents must provide detailed specifications with their quote. Any deviations to the following specifications should be noted next to the specification listed below by either handwriting or inserting a comment next to the specification. The DNR reserves the right to determine if the deviations are acceptable. Vendors must be authorized to extend manufacturer's warranties.

Specifications:

Brush Shredding Attachment Production Capabilities

The unit must be able to shred brush/scrub growth, branches, 12" stumps, out-of-the-ground root balls, logs, 8" diameter standing trees and brush piles. Unit must be able to shred material completely to grade level and disturb the surface up to 2" deep. Unit must shred material toward the ground. Units that cut or slash parallel to the ground throw material laterally (sideways) and are not permitted. Units that cut u are also not acceptable. Unit must be capable of producing a finely shred, mulch size material. The majority of shredded material must be 4" or less.

Hydraulic Drive

Unit to be powered by one variable displacement 107cc motor that transfers power to the rotor via two drive sheaves and a poly chain belt or a fixed displacement 63cc motor that transfers power via two drive sheaves and a 5VX-3 power band (choose one). The motor is to be capable of operating pressures up to 6000 psi.

Belt tensioning must be simple to perform by one person via a jackscrew. Belt tensioning rollers are not permissible. A belt tension inspection plate must be quickly and easily removable from the belt housing.



The Hammermill

Hammermill drum shall have a .75" wall thickness with forged steel tool holders welded in a staggered pattern throughout the drum. Standard double carbide tools must be less than 3.75" tall and must fit the "V-shape" interface of the holder. Rotor tip-to-tip diameter must be a minimum of 19.7". The combination of wall thickness, drum diameter, and tip-to-tip diameter provide rotating mass and energy for effective mulching performance and rotor durability. Units using a different combination of these elements must demonstrate how they will provide comparable inertia and durability. The unit must be available with 30 double carbide tipped cutting tools throughout the rotor. The rotor must have bolt-on stub shafts that must be forged and heat-treated. The rotor must rotate on 65mm spherical roller bearings with well-sealed bearing housings. Each carbide-tipped cutting tool must be rigidly bolted into holders by a single ¾"-16 UNF x 3.5" long grade-8 allen head bolt. Double carbide cutting tools must be forged with an inward "V-shape" that interfaces with the tool holder and accurately position the tools. Carbide inserts must be uniformly brazed into the leading edge at top of tool. Carbide tools must be proven to last in excess of 300 hours. Optional severe duty tools must be available for machines equipped with double-carbide tools. Severe duty tools shall contain 2 carbide plates on the face of the tool body below the cutting carbide inserts to provide wear protection in abrasive conditions. Optional Samurai chipper knives must be available to run in place of the carbide tools. The knife tool must be forged and reversible with 2 tapered cutting edges. The knife tool body will be tapered and bolt into the holder the same way as carbide tools are fastened. Units containing tools that cannot be individually changed, that hold tools in place on rods, or that allow tools to swing on rods are not accepted. These machines cannot effectively shred into the ground and are susceptible to excessive wear and additional labor costs to change tools.

Hammermill must cut down. This provides much safer operation and utilizes the ground as an anvil. Counter-cutters must be located inside the rotor chamber to assist in cutting and shredding material. Individual counter-cutters must be triangular in shape, minimum 2-1/2" tall at the peak, minimum 1/2" thick. Counter-cutters must be welded in a staggered pattern to help orient material for more efficient reduction. Units having no counter-cutters or only having straight rows of counter-cutters are not permitted.

Shredder Housing and Frames

Shredder housing and frame to be predominately fabricated from heavy wall tubing and steel plate. Body end plates must be minimum 5/16" high strength steel plate. Belt housing covers shall be minimum 3/16" high strength steel plate. Drive components must be compartmentalized for cleanliness, ease of maintenance, safety and greater strength.

Power band belt housing must fully encase belt and sheaves. Expanded metal or slotted covers allow dust, dirt and debris inside and will not be accepted. The belt housings must be configured to play an integral role in overall strength of machine housing. Housing must contain an easily removable belt inspection plate.

Steel skid plates are welded below belt housings on both ends of the machine. Skid plates protect the base of belt housings.

Steel deflection chain segments must be hinged on steel rods on the bottom rear edge of the unit to help retain projectiles.



A steel push bar is to be welded on the top of the housing. The push bar is to be fabricated from a rigid heavy-walled rectangular and square steel tubing. Continuously welded, the push bar is a powerful tool for controlling standing trees and scrub material during operation. Units without a push bar are not acceptable.

Exterior Coating

Machine body must be powder coated for superior protection.

Dimensions

Unit must have a minimum weight of 2,400 lbs.

Unit must have an overall length not to exceed 76”.

Unit must have a minimum cutting width of 61”.

FOB Destination: Great Lakes Wildlife Unit, 2248 125th St, Spirit Lake, IA 51360 on or before April 22nd, 2022.
***This is a requirement that cannot be waived.**

From the date of issuance of this Informal Competitive Solicitation until announcement of the successful Vendor, **Vendors may not contact any employee of the State of Iowa about this RFQ other than the DNR Issuing Officer named above.** Vendors may submit written questions relating to the interpretation of this Informal Competitive Solicitation and the procurement process to the DNR Issuing Officer at the above address. Written responses to any questions received will be provided to all known potential Vendors.

Acceptance of Attached Contract Terms and Conditions

By submitting a quote, Vendor acknowledges its acceptance of the Terms and Conditions located at:

<https://das.iowa.gov/sites/default/files/procurement/pdf/050116%20terms%20goods.pdf>

Miscellaneous Information: DNR reserves the right to reject any or all quotes, in whole or in part, to advertise for new quotes, to abandon the need for such, and to cancel this Informal Competitive Solicitation at any time prior to the execution of a written contract.

All information submitted by a Vendor may be treated as a public record by the DNR unless the Vendor properly requests that the information be treated as confidential information in accordance with the public records laws of the State of Iowa at the time its quote is submitted.

The costs of preparation and delivery of the quote are solely the responsibility of the Vendor.



COST PROPOSAL 22CRDWBDPAUL-002G

The Cost Proposal will include an all-inclusive, total cost in U.S. Dollars (including all travel, expenses, etc.) to provide and deliver the Forestry Head Mulcher with Rotary Drum meeting the specifications in this RFQ.

FOB Destination: Great Lakes Wildlife Unit, 2248 125th St, Spirit Lake, IA 51360 on or before April 22nd, 2022.

The DNR reserves the right to determine if it is advantageous to pick up the Forestry Head Mulcher with Rotary Drum themselves.

Forestry Head Mulcher with Rotary Drum Cost Each (qty 1) \$ _____

Freight/Shipping Cost \$ _____

Total Cost \$ _____

Calendar days to deliver from receipt of DNR Purchase Order _____ days

Calendar days of Manufacturer’s Warranty from date of delivery _____ days

Bidder understands that equivalent must provide detailed specifications with their quote. Bidder understands the DNR reserves the right to determine if the equivalent or deviations are acceptable. Bidder has read and understands the terms and conditions of this RFQ. Bidder understands they must be manufacturer representatives authorized to extend manufacturer’s warranties.

Bidder has read and agrees to this section: Yes No

Signature: _____ Date: _____

Printed Name and Title: _____

Name of Vendor Organization: _____

Address: _____

Phone: _____ Email: _____